

October 4, 2006

Ms. Cindy Lester U.S. ARMY CORPS OF ENGINEERS 3636 N. Central Avenue, Suite 760 Phoenix, Arizona 85012

Re:

ARIZONA EASTERN RAILWAY PROJECT IN SAFFORD, GRAHAM COUNTY, ARIZONA

JURISDICTIONAL DELINEATION

WESTLAND PROJECT NO. 1378.01 805 805

Dear Ms. Lester:

WestLand Resources, Inc. (Westland) has been retained by Arizona Eastern Railway (AZER) to complete the jurisdictional delineation (JD) and to assist them with Clean Water Act Section 404 permitting for a new rail line in the Graham County. The project is located on private and public lands in and adjacent to the City of Safford. Based on our August 25 teleconference with you, Circle Point, AZER, and the Surface Transportation Board (STB), we are submitting the JD for the entire 12.4 mile alignment, with the understanding that you will review the Gila River crossing portion of the project now and defer approval of our delineation of ephemeral drainages along the remainder of the project. To facilitate your review, the report presents the JD in three portions:

- 1. The southern 4.7 miles, from the existing railroad north to just north of Airport Road;
- 2. The Gila River crossing, which is contained within the Southern Portion; and,
- 3. The northern 7.7 miles, occurring on lands owned by the Phelps-Dodge Corporation.

The Gila River crossing has been mapped on a separate aerial, included as Attachment B. The northern and southern alignments cross ephemeral drainages, and we understand that the U.S. Army Corps of Engineers is not currently reviewing such delineations until the interim guidance is issued. It is our understanding from our conversation, that each of those crossings (of the ephemeral drainages) will likely meet the terms and conditions of a non notification Nationwide Permit 14. This will be verified by our analysis of the proposed project and all applicable terms and conditions.

Please let me know if you have any questions regarding this submittal or need any additional information.

Respectfully.

WestLand Resources, Inc.

Kimberly Oters Kimberly Oters

Senior Project Manager

KAO:gd

Enclosures: JD Report and Maps

Extra set of JD Maps

cc:

Mr. Jeff Barker, AZER

Ms. Katrina Hardt, Circle Point

Ms. Diana Wood, STB

PRELIMINARY JURISDICTIONAL DELINEATION FOR THE 12.4 MILE ARIZONA EASTERN RAILWAY PROJECT IN SAFFORD, GRAHAM COUNTY, ARIZONA

Prepared for: Arizona Eastern Railway

Prepared by: WestLand Resources, Inc.

Date: October 2, 2006

Project No.: 1378.01 805 805

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- Attachment B. Jurisdictional Delineation Gila River Crossing, with photographs and data sheets
- Attachment C. Jurisdictional Delineation Northern Alignment
- Attachment D. Agent Designation Letter from AZER and Right-of-Way Authorization

INTRODUCTION

WestLand Resources, Inc. (WestLand) was retained by Arizona Eastern Railway (AZER) to complete a delineation of areas that may be considered by the U.S. Army Corps of Engineers (ACOE) as waters of the United States (waters)¹ along the 12.4-mile proposed alignment of the new railroad line, a commercial rail carrier designed to serve the City of Safford and the Phelps-Dodge Corporation (PD). The alignment crosses lands owned by private and public entities in and adjacent to the City of Safford within Graham County, Arizona (Figure 1). An overview of the Project area is depicted in Figure 2.

METHODS

The project site was visited on three occasions in August and September 2006, to identify potentially jurisdictional waters within a 500-foot-wide corridor, 250 feet along either side of the proposed centerline. Methods used to determine jurisdictional waters varied due to the availability of existing data and site conditions along the length of the corridor; therefore, we have identified three portions of the project for consideration in this report. This will facilitate the ACOE's expedited review of the jurisdictional delineation (JD) at the Gila River crossing. The three portions are:

- 1. The southern 4.7 miles, from the existing railroad north to Airport Road (Figure 3);
- 2. The Gila River crossing, which is contained within the southern alignment (Figure 4); and,
- 3. The northern 7.7 miles, occurring on lands owned by the Phelps-Dodge Corporation (Figure 5).

SOUTHERN ALIGNMENT

Aerial photographs of the 4.7-mile southern alignment, dated April 7, 2006 (Lee Harbers), were reviewed in the office, and used to create field maps at a scale of 1:200 for the southern alignment of the project and 1:80 for the Gila River crossing. WestLand used interpretation of aerial photographs to identify drainage systems followed by field reconnaissance to determine the ordinary high water marks (OHWM). OHWM were identified by the presence of one or more of the following characteristics: a well-defined channel as indicated by an incision or scour line, debris line, change in substrate, or the presence of xeroriparian or riparian vegetation. The OHWM defines the lateral limits of the potentially jurisdictional drainages.

GILA RIVER CROSSING

On September 6th and 8th, a Westland biologist and a wetlands specialist visited the AZER proposed crossing over the Gila River located west of Solomon Bridge to determine the OHWM and to evaluate the potential

¹ Because the ACOE is the agency responsible for determining the jurisdictional status of drainages and other areas that may be considered waters of the United States, we refer to the waters delineated in this report as potential jurisdictional waters. WestLand's assessment of jurisdictional status is based upon previous experience with the ACOE and currently accepted protocols for delineating jurisdictional waters and their boundaries.

wetland status of the fringe of riparian vegetation adjacent to the primary flow channel. Guidelines provided in the ACOE 1987 Manual for determining the presence or absence of wetlands were followed and data forms documenting conditions at specific points along the watercourse were completed. The ACOE 1987 Manual also provides diagnostic environmental characteristics of vegetation, soil, and hydrology for non-wetlands. If any one of these characteristics is present, the area is non-wetland. To facilitate our determination of potential wetlands, we took soil samples and listed plants growing at 8 points adjacent to the Gila River. Photographs were taken at each of the data points. Field characteristics noted in the previous section were documented to identify the OHWM. To further assist in this delineation, we reviewed flow data (1916 to the present) collected at the USGS gauging station located upstream at the Solomon Bridge and compared field observations with flow levels.

NORTHERN ALIGNMENT

This portion of the line is 7.7 miles in length. The northern 3.7 miles of the northern portion were included on the JD completed and approved on March 1997 (ACOE File No.964-0202-MB) for Phelps-Dodge 404 permit. The data provided on the approved JD was used to calculate acreage of jurisdictional waters crossed by the northern portion. Approximately four miles of the proposed alignment falls just west of the area approved under the PD JD; therefore, WestLand obtained aerials of the area from the on-line Digital Ortho Quarter Quadrangle (DOQQ) database (date, 1992) and, based on the approved JD, extended the alignment of jurisdictional waters west and southwest across the property.

SITE DESCRIPTION

The project area is located on the lower, south-facing slopes and bajada of the Gila Mountains, one of the northwest-trending mountain ranges at the northern margin of the Basin and Range Physiographic Province. The Gila Valley is typical of the intermontane basins that have been created by stream flows and filled with sediments eroded from the adjacent mountains. All drainages within the project area discharge to the Gila River.

SOUTHERN ALIGNMENT

The southern alignment begins at the existing railroad and cuts north through agricultural fields, crosses State Highway 70 (SH 70), runs along an existing dirt farm road parallel to the west side of the Sam Simon River, curving west at the Gila River to the crossing point. This dirt road is on a berm constructed along the southern bank of the Gila River likely developed to diminish flooding of farm fields during storm events. The Gila River is bordered on the south by agricultural fields and on the north by open desert habitat, and the San Simon River is bordered on all sides by mostly open agricultural lands, with a few scattered houses present. An abandoned hog farm is located west of the San Simon River, north of SH 70. Based on USGS 7.5-minute topographic map, the elevation range along this portion ranges from approximately 2,980 to 2,930 feet above mean sea level. The northern bank of the Gila River is a cliff rising approximately 100 feet above the

riverbed.

The San Simon River has been channelized and is actively being managed to maintain an open channel to remove irrigation run-off from the surrounding cotton fields. The vegetation along the San Simon River is more strongly influenced by the surrounding agricultural fields with numerous non-native species present. The dominate species present include desert broom, (*Baccharis sarothroides*), velvet mesquite (*Prosopis velutina*), salt cedar (*Tamarix ramosissima*), and Goodding willow (*Salix gooddingii*).

The alignment continues north from the Gila River Crossing across privately-owned undeveloped lands with evidence of human activity. There is an unoccupied home and an area where old farm equipment and other trash is present, as well as a motor home and corral. Cattle grazing occurs throughout the area. There is a small earthen tank near Airport Road at the northern end of this portion of the line that contained pooling stagnant water and was abundant with toads at the time of the site visit. There is no outlet structure evident from the tank.

GILA RIVER CROSSING

The alignment crosses the Gila River west of the Soloman Bridge and downstream of its confluence with the San Simon River. The Gila River flood plain is extremely broad (650-1,000 ft [200-300 m] wide) along the survey area. During the site visit, it was noted that flows were much higher than those evident on the aerial (April 2006) due to the heavy rains that had occurred since July 7, 2006. Channels were much wider and new channels were present, which illustrates the dynamic nature of this river system. The broad flood plain area is typified by very sandy soils. Along the northern side of the floodplain the river bank is steep with vertical cliff faces rising approximately 100-130 feet (30-40 m).

Vegetation across the flood plain of the Gila River tends to be open with scattered patches of trees and dense willow strands adjacent to the river. The dominant plant along the Gila River is coyote willow (Salix exigua), which creates a hedge of habitat approximately 10-13 feet (3-4 m) in width and 10-40 feet (3-12 m) in height at the waters edge. Beavers have created numerous breaks in vegetation adjacent to the channel. Numerous Fremont cottonwood (Populus fremontii) and tamarisk (Tamarix sp.) patches are present throughout the flood plain. These are not dependent on surface flows. The cottonwood trees tend to be older, more mature plants. The tamarisk tends to occur in scattered mono-typical patches across the flood plain, and throughout the survey area comprises only a small fraction (approximately ten percent) of the overall vegetation biomass. Saturated soils are present along the beaver pools and extend about two feet (0.6 m) up the bank. Some plants noted along the survey area include nut sedge (Cyperus sp), spike rush (Eleocharis sp), sweet clover (Melilotus alba), rabbitfoot grass (Polypogon monspeliensis), bull rush (Scirpus americanus), seepwillow (Baccharis salicifolia), cockle bur (Xanthium strumarium), and sunflower (Helianthus annuus).

NORTHERN ALIGNMENT (PD PROPERTY)

The northern alignment crosses undeveloped lands owned by Phelps-Dodge Corporation. There are several ephemeral drainages occurring along the northern portion of the Project area ranging from large named drainages with multiple braided channels to smaller unnamed channels. These drainages convey storm water flows from northeast to southwest, discharging to the Gila River about 6 miles southwest of the alignment. The upland plant community is typical of Sonoran desertscrub and is sparsely vegetated throughout the area. Xeroriparian habitat is found along the ephemeral drainages is typified by velvet mesquite (*Prosopis velutina*), desert broom (*Baccharis sarothroides*), seep-willow (*Baccharis glutinosa*) and desert hackberry (*Celtis pallida*).

RESULTS

Areas determined by WestLand to meet the criteria for jurisdictional waters are delineated on the attached 1"=100' aerial photograph. Red lines, demarcating the OHWM filled with yellow hatching, delineate jurisdictional drainages. Data points are indicated by a black dot that is labeled with the data point number and the width of the wash at that point. Areas which were identified on the aerial photograph as potentially jurisdictional were field checked (southern alignment and Gila River crossings) to determine if there were characteristics of jurisdictional waters present and to evaluate the area on a regional basis.

SOUTHERN ALIGNMENT

The JD for the southern portion is provided with an aerial photo base in Attachment A. It was determined that from the southern terminus at the existing railroad north to the Gila River crossing, no potentially jurisdictional waters are crossed. Between SH 70 and the Gila River, the alignment parallels the west side of the San Simon River. The San Simon River is a constructed, maintained channel that conveys flows north to the Gila River. Although the San Simon River is within the 500-foot-wide corridor evaluated, the project will not cross or affect the channel. Photographs of the San Simon River are provided in Attachment A, but the channel was not delineated. The Gila River crossing is discussed in more detail in the following sections. Three drainage systems were evaluated of which two were determined to be potentially jurisdictional drainages. Wash A did not have characteristics of a jurisdictional drainage. Wash B and Wash C are ephemeral in nature and were delineated.

The natural drainage pattern along Wash B, which conveys flows from the east across the alignment, has been altered by the creation of a manmade earthen tank located along the centerline of the corridor. There was some stagnant water in the tank during our field visit and there is no apparent outlet. The area was evaluated as a potential wetland (as described in the Gila River section). A soil sample was taken and the vegetation was characterized, neither of which supported a wetland determination (Data Sheet - Attachment A). There is minimal evidence of flow along the northeast side of the tank, along a manmade berm, that continues west from the tank. Wash C is a braided channel within the 500-foot-wide corridor. The upstream portions do not

have distinguishable channel characteristics (C1); however, the channel becomes more defined downstream for the confluence of smaller braids.

Table 1. Area of Potentially Jurisdictional Waters identified along the AZER Southern Alignment.

Portion of the Line	Drainage ID	Jurisdictional Area (Acres)
Southern Portion	A	NJD
	В	0.43*
	С	0.09
	TOTAL	0.52

^{*}Includes earthen tank area.

GILA RIVER CROSSING

Attachment B provides the JD for the Gila River Crossing, along with photographs and datasheets completed to determine the presence or absence of wetlands. It was determined that no wetlands are present (see discussion below). The OHWM for the Gila River depicted on the aerial is based on a close evaluation of field conditions and a review of the flow data from the Solomon Bridge gauging stations. The area of jurisdictional waters along the Gila River is estimated to be 9.27 acres.

WestLand's wetland biologist visited the AZER proposed crossing over the Gila River to evaluate the potential wetland status of the fringe of riparian vegetation adjacent to the primary flow channel. This area is dominated by coyote willow (Salix exigua) and Goodding willow (S. gooddingii), both of which are considered obligate (OBL) wetland indicator species. A species list is provided in Attachment B (Table B-1). Although considered obligate species, both have deep root systems which are capable of reaching saturated conditions far below the surface. The substrate in the area consists primarily of sand; there is no soil development in this area and there is no indication that the substrate is saturated for more than brief periods following storm events. It is our determination that this area does not meet the criteria necessary to be considered wetland.

The ACOE 1987 Manual describes three general conditions that lead to atypical situations or problem areas, which could allow such areas to be designated as wetland without having positive indicators for all three parameters. Atypical situations are defined as unauthorized activities, man-induced wetlands, or natural events. This riparian fringe has had no unauthorized activities, and there have been no human-caused actions to change the conditions in these areas. Examples of natural events include fire, avalanches, volcanic activity, and changing river courses. The latter could potentially apply in this river bottom, and this area is a dynamic system in which the primary flow channel is likely to move across the flood plain over time. The "normal circumstance" for this system is continual change. Any fringe of riparian vegetation is likely to move with alterations in the main flow channel, and changes cannot be considered permanent. Because of the lack of soil development or stratification and the lack of long-term saturation, this does not function as a wetland.

The ACOE 1987 Manual also describes several "problem areas," in which the determination of wetland

conditions is complicated by the seasonal lack of indicators for one or more of the three parameters. Specific conditions within this category include wetlands on drumlins (glacial till features), seasonal wetlands (depressional areas primarily in the arid regions of the west), prairie potholes (shallow depressions in the north-central plains), and vegetated flats (mudflats with seasonal growth of OBL species). The active flow channel of the Gila River does not fit into any of the possible problem area classifications.

Furthermore, the ACOE 1987 Manual provides diagnostic environmental characteristics of vegetation, soil, and hydrology for non-wetlands, which WestLand considered in this delineation. ACOE guidelines state that if any one of these characteristics is present, the area is non-wetland. Specifically, the prevalent vegetation consists of plant species adapted for life only in aerobic soils and that cannot persist in anaerobic soil conditions. Because of the prevalence of OBL wetland species in the riparian fringe, this characteristic does not apply. The second characteristic is that soils, where present, are not classified as hydric and possess characteristics associated with aerobic conditions. No soils are present in the Gila River riparian fringe. The substrate is composed entirely of fine-grained sand and river cobbles. This characteristic should define these areas as non-wetland. Under the hydrology criterion, an area may be periodically inundated or saturated and still not qualify as wetland provided they do not preclude the occurrence of plant adapted for life in aerobic soil conditions. Most data points have at least one or two species in the facultative (FACU) or upland (UPL) categories, indicating that the hydrologic conditions do not preclude their occurrence. This characteristic would also define these riparian fringe areas as non-wetland.

NORTHERN ALIGNMENT (PD PROPERTY)

Attachment C provides the JD for the northern portion of the alignment from the southern boundary of the PD property, running north to the mine site. The northern portion of the northern alignment was included in the approved JD completed for the PD project (ACOE File No. 964-0202-MB, March 1997). This existing data was used to calculate acreage of jurisdictional waters on this portion of the alignment. Jurisdictional waters on the approved JD continue to convey flows to the southwest from the mine project area across the lower approximately 4 miles of the alignment. There are wide, braided named washes, as well as several unnamed washes that have been delineated. No wetlands or special aquatic sites are located along the northern portion. Table 2 summarizes the jurisdictional waters along the northern alignment.

Table 2. Area of Potentially Jurisdictional Waters identified along the AZER Northern Alignment.

Portion of the Line	Drainage ID	Jurisdictional Area (Acres)	Totals
Northern Portion	F8	0.16	
Previously approved JD (ACOE	F9	0.19	
File No. 949-0202-MB); letter	F11	0.05	
designations follow approved		Total F	0.40
JD format. Not all washes	G (Watson Wash)	0.16	
approved on the JD cross the AZER alignment.	G1 (Watson Wash)	5.20	
		Total G	5.36
	1(Talley Wash)	0.09	
	11 (Talley Wash)	0.23	

Table 2. Area of Potentially Jurisdictional Waters identified along the AZER Northern Alignment.

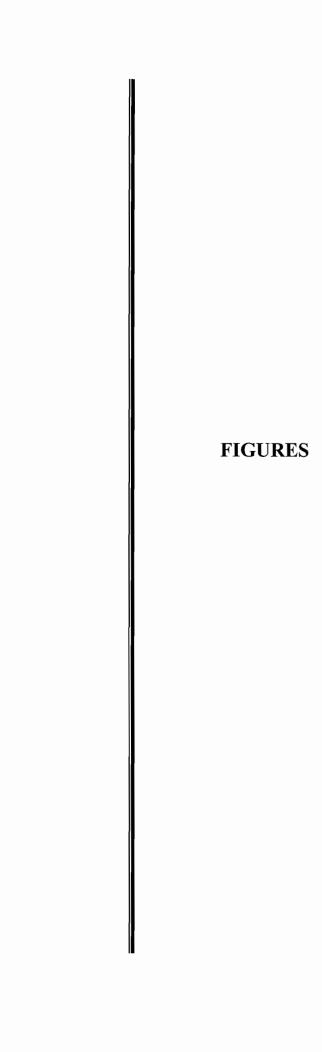
Portion of the Line	Drainage ID	Jurisdictional Area (Acres)	Totals	
		Total I	0.32	
	J (Cottonwood Wash	0.23		
	J1 (Cottonwood Wash)	0.07		
		Total J	0.30	
	M	0.08	0.08	
Southern Portion	N	0.10	0.10	
Not included on PD Approved	O (Peterson Wash)	0.35	0.35	
JD - delineated on available	Q	0.79		
aerials. Letter designations	Q1	0.32		
follow southwest from those		Total Q	1.11	
shown on the approved JD	R1 (Wilson Wash)	0.18		
where possible.	R2 (Wilson Wash)	0.13		
	R3 (Wilson Wash)	0.19		
		Total R	0.50	
	S	0.3	0.30	
	T	0.15	0.15	
	U	0.17	0.17	
	V1 (Lone Star Wash)	0.12		
	V2 (Lone Star Wash)	0.22		
	V3 (Lone Star Wash)	0.20		
		Total V	0.54	
		TOTAL	9.68	

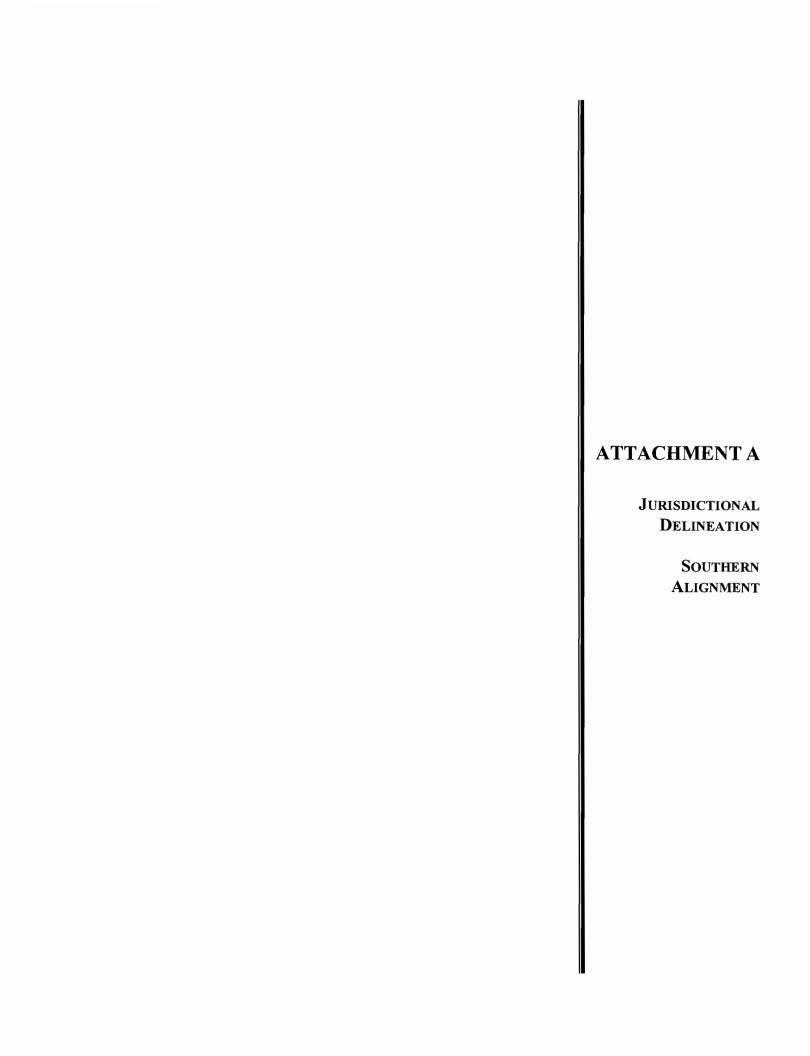
CONCLUSION

The 12.4-mile long AZER alignment is considered in three segments for ACOE review and consideration. As discussed with Ms. Cindy Lester, this is to allow for ACOE review of the Gila River at this time, while waiting to complete a review of the ephemeral drainages along the northern and southern portions until the interim guidance for these types of drainages is issued from ACOE's headquarters. Ephemeral drainages were identified along the length of the AZER alignment.

Approximately 9.27 acres of jurisdictional waters are associated with the Gila River crossing within the 500-foot-wide corridor considered in this delineation. No wetlands or special aquatic sites were identified.

AZER is currently working with the appropriate landowners to obtain the rights-of-way (ROW) for the railroad. A letter from AZER and a list of landowners involved in the transaction is attached (Attachment D). All landowners have entered into discussions with AZER and are aware of the project. Final ROW agreements will be completed later in the process.



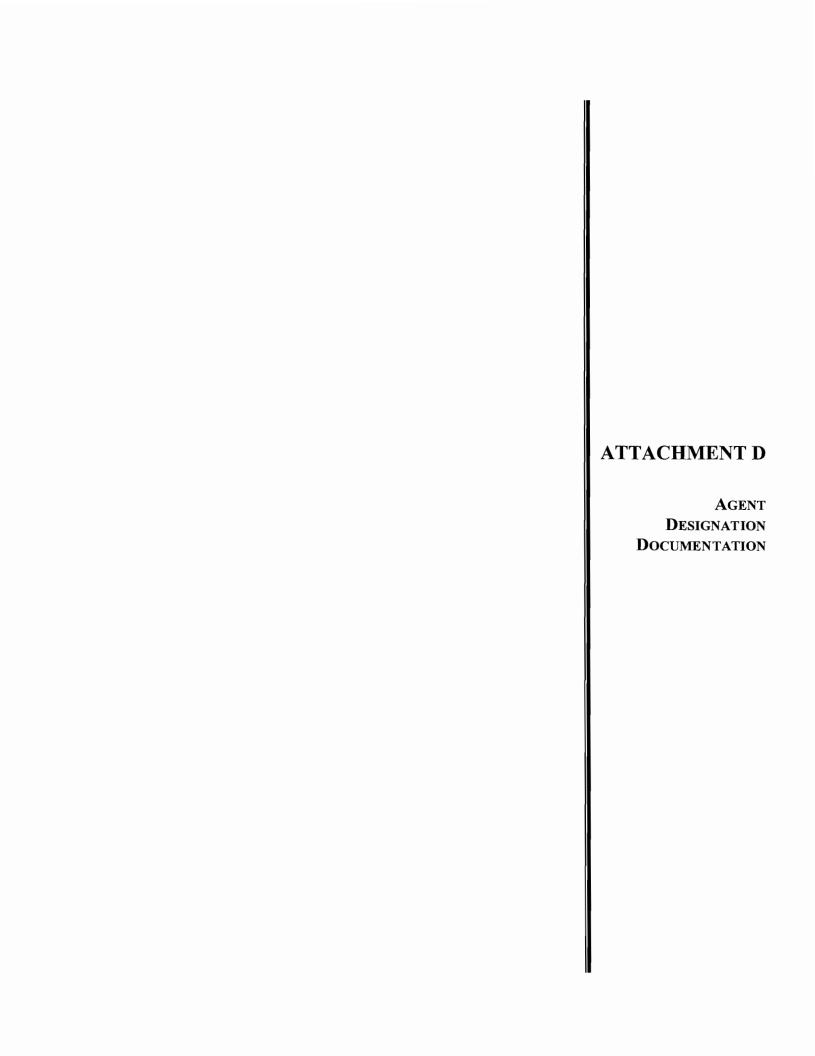


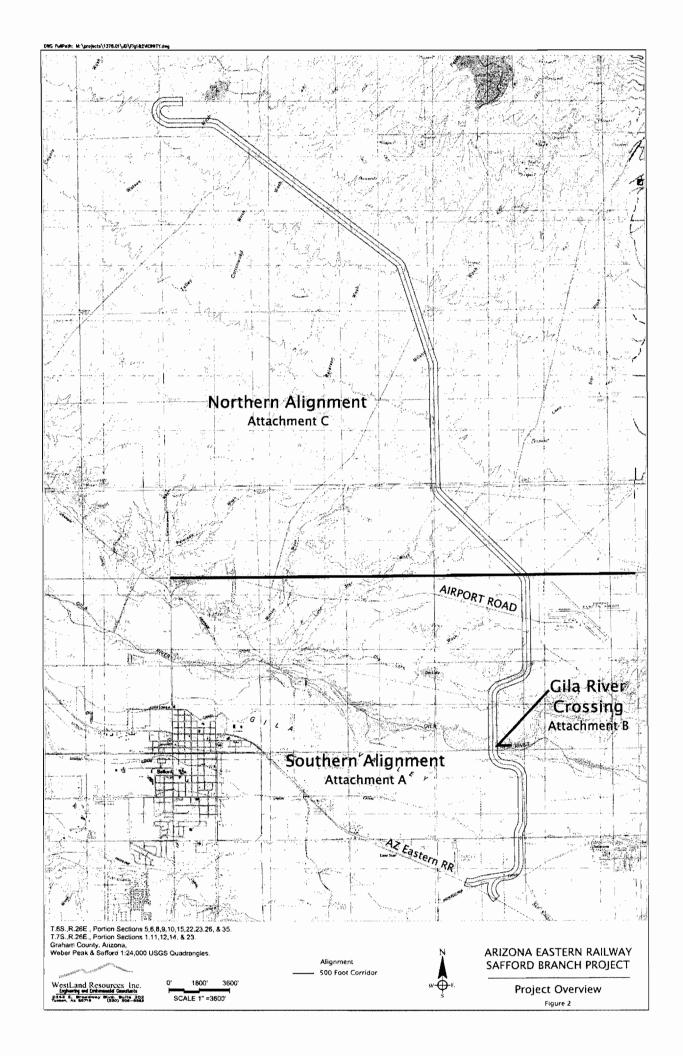
ATTACHMENT B

JURISDICTIONAL DELINEATION

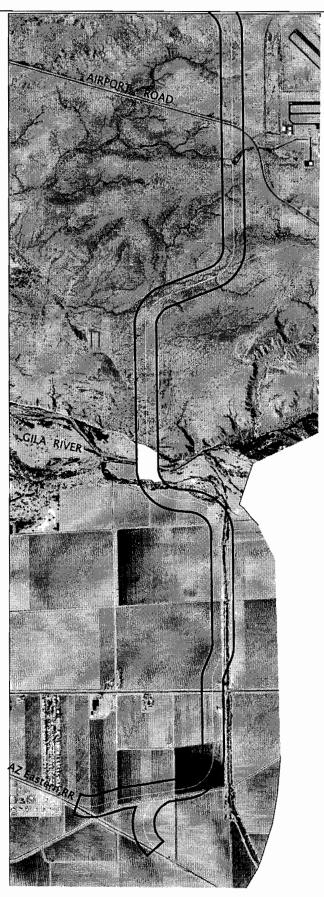
GILA RIVER CROSSING

		FACHMENT C
		JURISDICTIONAL DELINEATION
		NORTHERN ALIGNMENT





DNG FURPOUR NC \projects\1378.01\u0\u0-south-UTM.dw



T.7S.,R.26E., Portion Sections 1,11,12,14, & 23. Graham County, Arizona. Photo Source - Lee Harbers, Consultant Photo Date - April 7, 2006

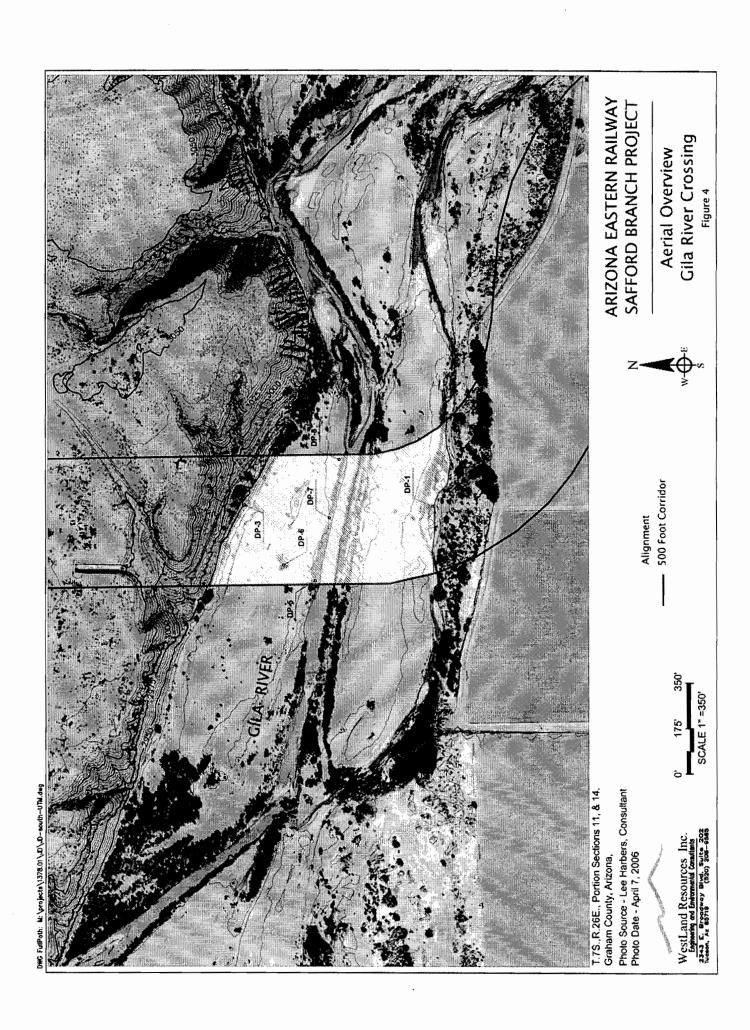
700 SCALE 1" =1400"

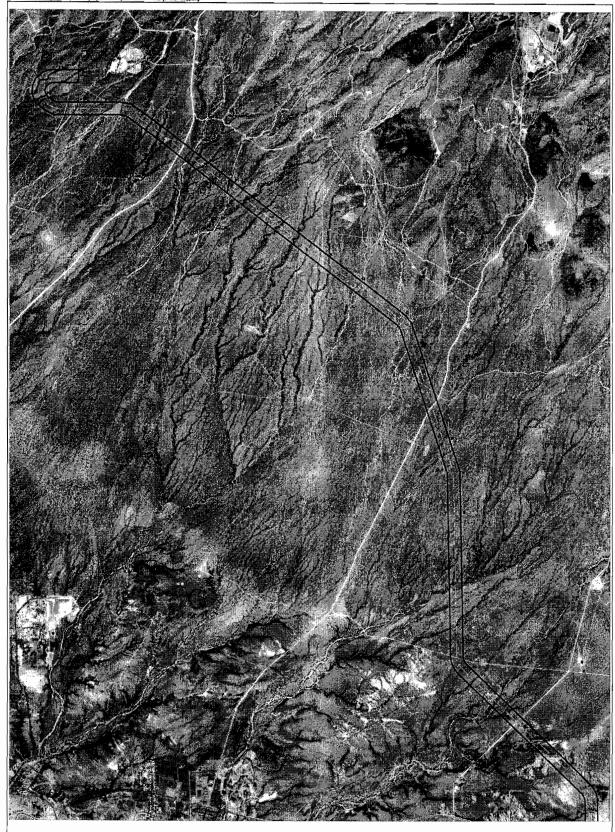
Alignment 500 Foot Corridor



ARIZONA EASTERN RAILWAY SAFFORD BRANCH PROJECT

> Aerial Overview Southern Alignment Figure 3





T.6S.,R.26E., Portion Sections 5,6.8,9.10,15,22,23,26, & 35. Graham County, Arizona. Photo Source - Lee Harbers, Consultant Photo Date - April 7, 2006

WestLand Resources Inc.
Enghanting and Environmental Consultation
2343 E. Breadway Block Suite 202
Thingen, As 88719 (020) 300-0003

SCALE 1" =2400'

Alignment - 500 Foot Corridor



ARIZONA EASTERN RAILWAY SAFFORD BRANCH PROJECT

> Aerial Overview Northern Alignment Figure 5



PHOTO 1
San Simon River



PHOTO 2
San Simon River overview.

PHOTO 3



San Simon River, near confluence with the Gila River.

WestLand Resources, Inc. Engineering and Environmental Consultants

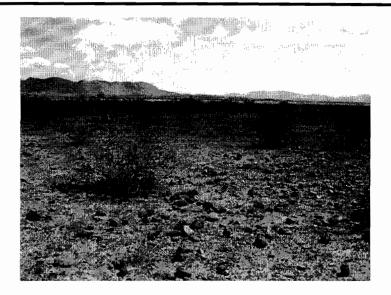


PHOTO POINT 1. Data Point A-1

Wash A. Non-jurisdictional Looking west.

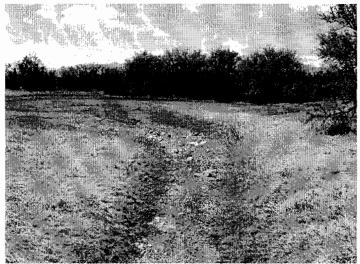


PHOTO POINT 2. Data Point B-1

Wash B. Jurisdictional

Small drainage/path to man-made earthen tank. Looking downstream west non-wetlands. (See Attachment A - Data Sheet No. 9: Wetlands form)



PHOTO POINT 3. Data Point B-2

Wash B. Jurisdictional

Small drainage along berm on northside of man-made earthen tank. Looking downstream.

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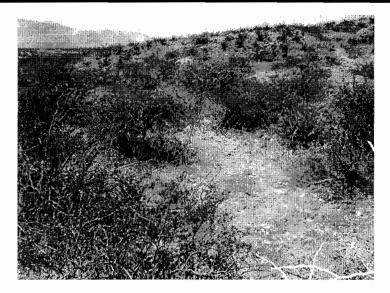


PHOTO POINT 4. Data Point C1-1

Non-jurisdictional

No defined ordinary high water mark. Looking downstream.



PHOTO POINT 5. Data Point C1-2

Non-jurisdictional

No defined ordinary high water mark. Looking upstream.



PHOTO POINT 6. Data Point C1-3

Non-jurisdictional

No defined ordinary high water mark. Looking upstream.

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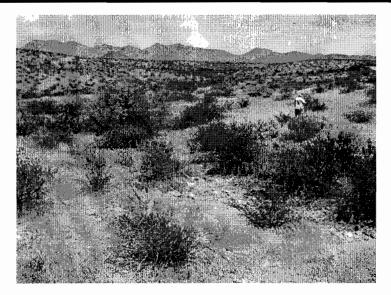


PHOTO POINT 7. Data Point C2-1

Non-jurisdictional

No defined ordinary high water mark. Looking north across centerline.

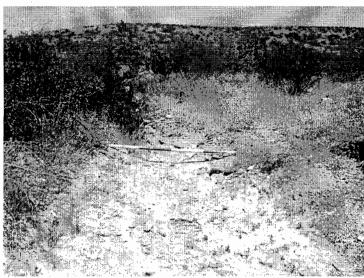


PHOTO POINT 8. Data Point C2-2

Jurisdictional

Looking upstream 3-feet wide.

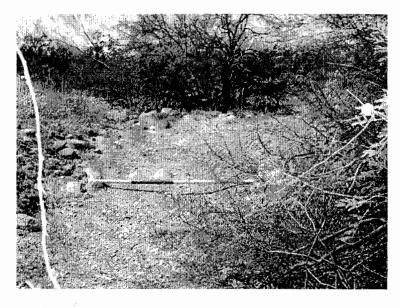


PHOTO POINT 9. Data Point C-1

Jurisdictional

Looking downstream.

WestLand Resources, Inc. Engineering and Environmental Consultants



PHOTO POINT 10. Data Point C-2

Jurisdictional

Looking downstream.



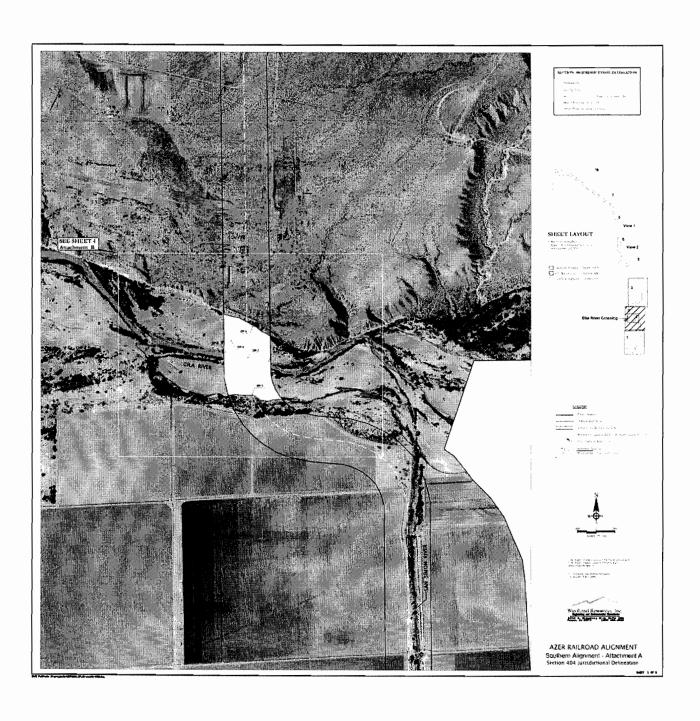
PHOTO POINT 11. Data Point C-3

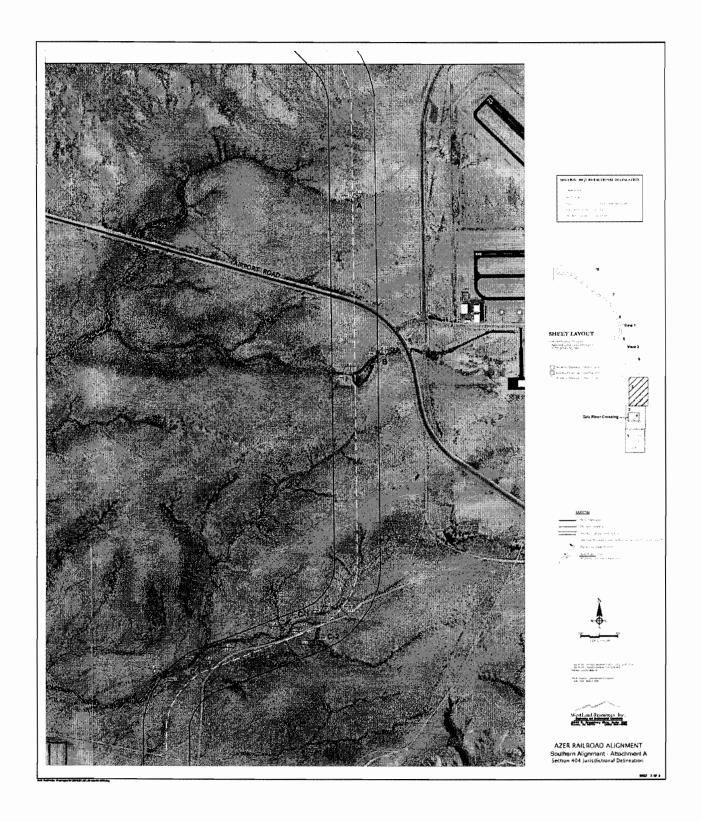
Jurisdictional

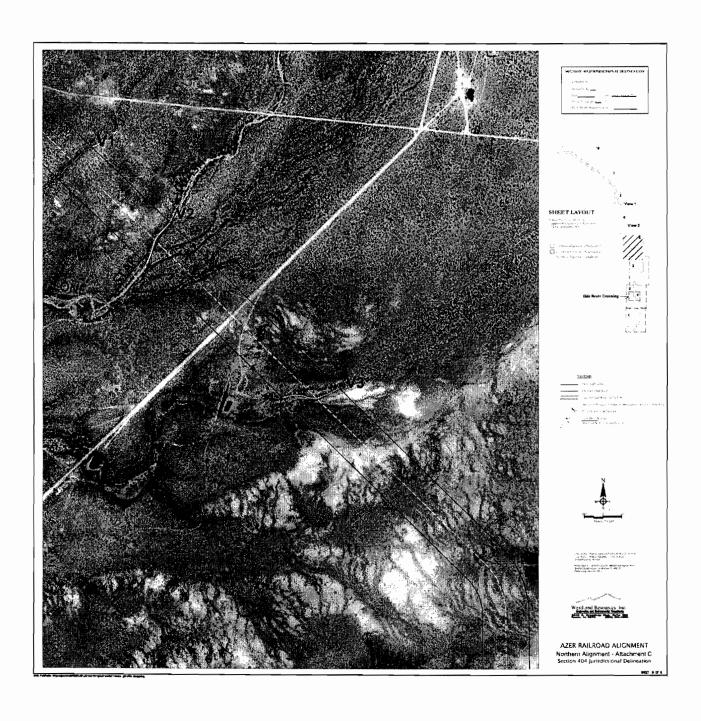
Looking upstream from edge of the 500-foot-wide corridor.

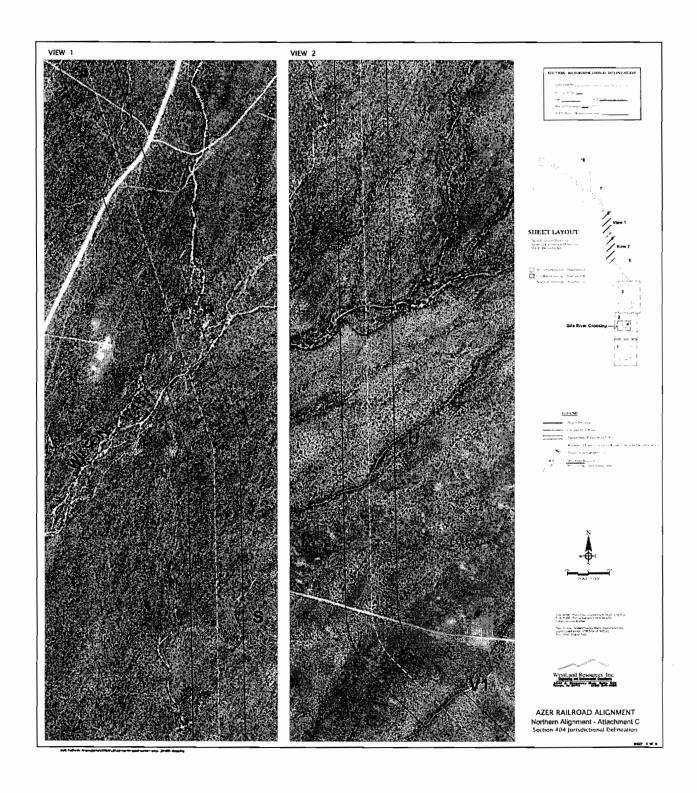
WestLand Resources, Inc. Engineering and Environmental Consultants

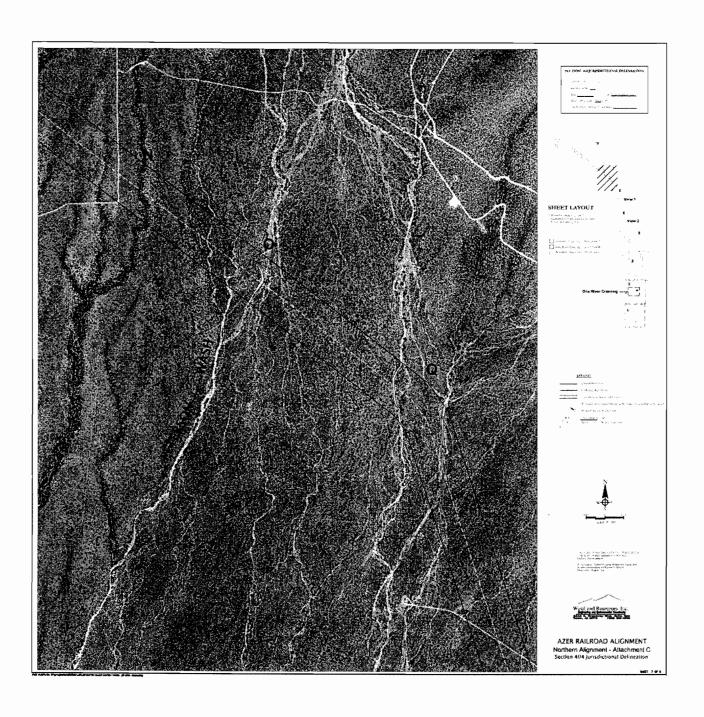


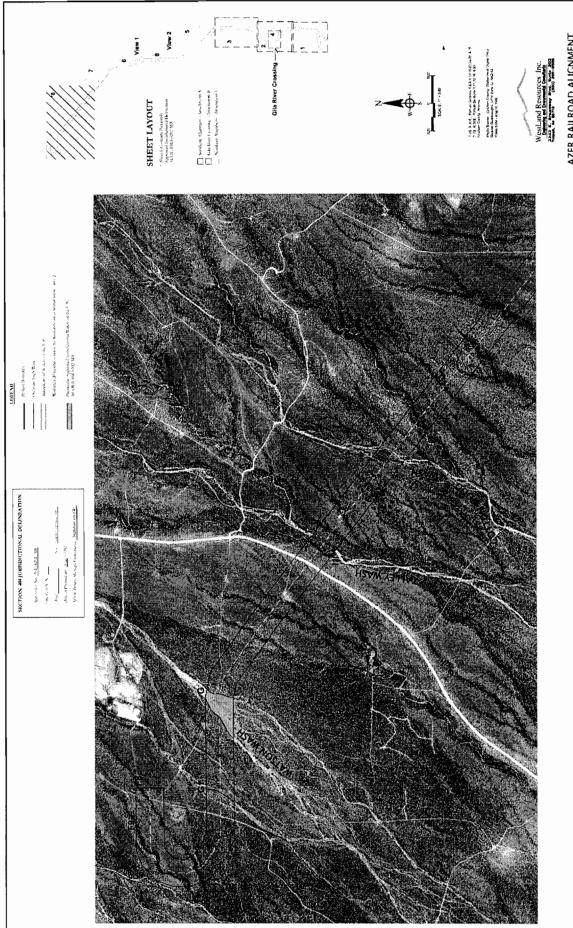












AZER RAILROAD ALIGNMENT Northern Alignment - Atlachment C Section 404 Jurisdictional Delineation

DATA FORM ROUTINE ONSITE WETLAND DETERMINATION1987 CORPS OF ENGINEERS MANUAL

		1707	COIGO	<u>UI L</u>	1101	II VEELED MITH	CILL		
1	ribe General S litions:	ite In small stock ta	nk west o	of air	port		Data Point No.: B-1		
Do Normal Circumstances Exist on Site? Yes Is Site a Potential Problem A				ial Problem Area? No					
$\overline{}$	Site Disturbance? Excavation and berming in drainage to create stock tank.								
		tuin.	v	ÆGI	ETA	TION	Stock tank.		
Dominant Plant Species		Indicator Status	Stratum	Dominant Plant Species to			Indicator Status	Stratum	
1 <i>P</i>	Prosopis velutin	a	UPL	T	8				
-	lcacia greggii		UPL	S	9				М
	Cynodon dactylo	on	FACU	Н	10				
	Trianthema port		NI	Н	11				\vdash
5	- I - I - I - I - I - I - I - I - I - I			<u> </u>	12				\Box
6					13				\vdash
7			1		14				+
	ent of dominar	nt species that are OBL, FA	ACW an	d/or		: 0%			
Is the		vegetation criterion met?		_		Rationale:	<50 % FAC, FACW, or OB	L. NI spec	ies
Horiz Mottl Other	zon les? r hydric soil in	Matrix Color: Mottle Colors: Mottle Colors: Mosoil stratific iterion met? No	-	yer oj	fsilt	Histic (~12") over cal	10" Gleyed? Epipedon? No	No s unsatura	ted.
Is the	e ground surfac	ce inundated? No				LOGY ater depth: -			
	e soil saturated		_ ~						
		ing water in probe hole:	To surfa	ce.					
					ted b	y excavation an	d berming across small drain	age.	
		ognatus and Bufo debilis.							_
		ology criterion met? Ye	?s	Ra	ition	ale: Evidence	e of long-term inundation or .	saturation.	
					_				_
		V	VETLAN	ND D	ET	ERMINATIO	N		
Are v	wetland criteria	a met? No							
	onale for wetla		indicator	rs for	soil	or vegetation. I.	solated, excavated stock tank		
				- , 5.			,, and and an		
ъ.	. 37	ZER R -: 1 1 1 1 1 1 1 -					W-41-15		
		ZER Railroad Alignment					WestLand Resources,		
Field Investigator(s): T. Strong, K. Otero 2323 E. Broadway Blvd., Suite 202									
Proje	ect No.: 137	8.01 Date:	<i>Sept.</i> 8,	2006			Tucson, Arizona 857	19	



Data Point 1. Flowing Channel of Gila River near south bank.



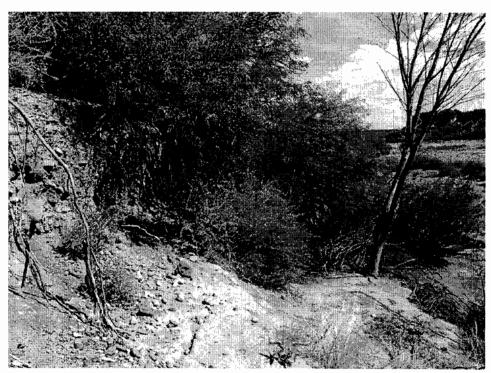
Data Point 2. Floodplain of Gila River near south bank.

Attachment B

WestLand Resources, Inc. Engineering and Environmental Consultants



Data Point 3. Low overflow channel of Gila River near north bank.

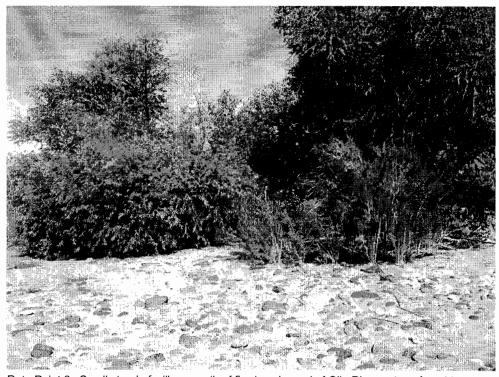


Data Point 4. On slope above ordinary high water mark on north side of river.

Attachment B



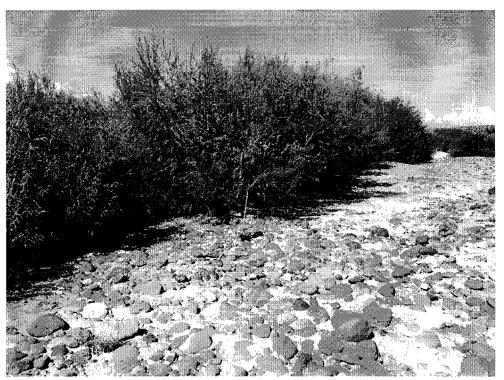
Data Point 5. Near north edge of flowing channel of Gila River, west edge of 500-foot-wide corridor.



Data Point 6. Small stand of willows north of flowing channel of Gila River, edge of corridor.

Attachment B

WestLand Resources, Inc. Engineering and Environmental Consultants



Data Point 7. Near north edge of flow channel of Gila River, centerline of corridor.



Data Point 8. Near north edge of flowing channel of Gila River, east edge of corridor.

Attachment B

WestLand Resources, Inc. Engineering and Environmental Consultants

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Conditions: bank.		ila R	iver, near south	Data Point No.: DP-1		
Do Normal Circumstances Exist on Site	e? Yes		Is Site a Poter	ntial Problem Area? No		
Site Disturbance? No recent disturba	nces.			Location: ~20' WNW	from A-9	
	•	/EGI	ETATION			
Dominant Plant Species	Indicator	Stratum	Domi	inant Plant Species	Indicator Status	Stratum
1 Tamarix sp.	NI	T	8			
2 Baccharis salicifolia	FACW	S	9			
3 Salsola tragus	FACU	Н	10			П
4 Sorghum halepense	FACU	\overline{H}	11			\vdash
5			12			
6		_	13			Н
7		1	14			
Percent of dominant species that are O	BL. FACW. an	ıd/or				
Is the hydrophytic vegetation criterion			Rationale:	< 50 % FAC, FACW, or OB.	L. NI spec	ies
not included in evaluation.		_				
not included in evaluation.						
Soil Type: Maricopa loam Hydric Soils List: No Horizon - Matrix Color: 10 YR 3/3 Depth: 10" Gleyed? No Mottles? None Mottle Colors: - Histic Epipedon? No Other hydric soil indicators: Saturated Is the hydric soil criterion met? No Rationale: Riverbed sediments, no soil stratification.						
Other hydric soil indicators: Saturated	d	Rati			n.	
Other hydric soil indicators: Saturated Is the hydric soil criterion met? No			onale: Riverbed		n.	
Other hydric soil indicators: Saturated Is the hydric soil criterion met? No Very sandy. High chroma, no mottles.		HYD	onale: Riverbed	l sediments, no soil stratificatio	n.	
Other hydric soil indicators: Saturated Is the hydric soil criterion met? No Very sandy. High chroma, no mottles. Is the ground surface inundated? Yes		HYD	onale: Riverbed	l sediments, no soil stratificatio	n.	
Other hydric soil indicators: Saturated Is the hydric soil criterion met? No Very sandy. High chroma, no mottles. Is the ground surface inundated? Yes Is the soil saturated? Yes	S	HYD	onale: Riverbed	l sediments, no soil stratificatio	n.	
Other hydric soil indicators: Saturated Is the hydric soil criterion met? No Very sandy. High chroma, no mottles. Is the ground surface inundated? Yes Is the soil saturated? Yes Depth to free-standing water in probe in the same of the saturated in the saturate	S Solole: -	HYD Surfac	ROLOGY e water depth:	d sediments, no soil stratificatio		
Other hydric soil indicators: Saturated Is the hydric soil criterion met? No Very sandy. High chroma, no mottles. Is the ground surface inundated? Yes Is the soil saturated? Yes Depth to free-standing water in probe to Other field evidence of hydrology: Here is the soil saturated? Yes Depth to free-standing water in probe to other field evidence of hydrology:	S Solole: -	HYD Surfac	ROLOGY e water depth:	d sediments, no soil stratificatio		WM
Other hydric soil indicators: Saturated Is the hydric soil criterion met? No Very sandy. High chroma, no mottles. Is the ground surface inundated? Yes Is the soil saturated? Yes Depth to free-standing water in probe to Other field evidence of hydrology: If on south side of river.	S nole: - Flowing channel	HYD urfac	nonale: Riverbed ROLOGY e water depth: la River, also carri	d sediments, no soil stratificatio ~5" es flow from San Simon River.		WM_
Other hydric soil indicators: Saturated Is the hydric soil criterion met? No Very sandy. High chroma, no mottles. Is the ground surface inundated? Yes Is the soil saturated? Yes Depth to free-standing water in probe to Other field evidence of hydrology: Here is the soil saturated o	S nole: - Flowing channel	HYD urfac	onale: Riverbed ROLOGY e water depth:	d sediments, no soil stratificatio		WM
Other hydric soil indicators: Saturated Is the hydric soil criterion met? No Very sandy. High chroma, no mottles. Is the ground surface inundated? Yes Is the soil saturated? Yes Depth to free-standing water in probe to Other field evidence of hydrology: If on south side of river.	Snole: Flowing channel Yes	HYD Surfac	nonale: Riverbed ROLOGY e water depth: la River, also carri	d sediments, no soil stratificatio ~5" Tes flow from San Simon River. ated on regular basis.		WM_
Other hydric soil indicators: Saturated Is the hydric soil criterion met? No Very sandy. High chroma, no mottles. Is the ground surface inundated? Yes Is the soil saturated? Yes Depth to free-standing water in probe to Other field evidence of hydrology: Is on south side of river. Is the wetland hydrology criterion met.	Snole: Flowing channel Yes	HYD Surfac	ROLOGY e water depth: la River, also carri	d sediments, no soil stratificatio ~5" Tes flow from San Simon River. ated on regular basis.		WM_
Other hydric soil indicators: Saturated Is the hydric soil criterion met? No Very sandy. High chroma, no mottles. Is the ground surface inundated? Yes Is the soil saturated? Yes Depth to free-standing water in probe hydrology: Is the wetland hydrology criterion met. Is the wetland criteria met? No	Snole: - Flowing channel Yes WETLA	HYD Surface of Gi	ROLOGY The water depth: The	d sediments, no soil stratification ~5" es flow from San Simon River. uted on regular basis.	Near OHV	
Other hydric soil indicators: Saturated. Is the hydric soil criterion met? No Very sandy. High chroma, no mottles. Is the ground surface inundated? Yes Is the soil saturated? Yes Depth to free-standing water in probe hother field evidence of hydrology: Hon south side of river. Is the wetland hydrology criterion met. Are wetland criteria met? No Rationale for wetland decision: No Rationale for wetland decision:	Shole: - Flowing channel Yes WETLAN	HYD Surface Ra ND D	ROLOGY The water depth: The la River, also carriationale: The interpolation of the latter of the latter depth. The soil or vegetation.	d sediments, no soil stratificatio ~5" Tes flow from San Simon River. ated on regular basis.	Near OHV	
Other hydric soil indicators: Saturated Is the hydric soil criterion met? No Very sandy. High chroma, no mottles. Is the ground surface inundated? Yes Is the soil saturated? Yes Depth to free-standing water in probe hydrology: Is the wetland hydrology criterion met. Is the wetland criteria met? No Rationale for wetland decision: No Rationale for wetland decision:	Snole: - Flowing channel Yes WETLA	HYD Surface Ra ND D	ROLOGY The water depth: The la River, also carriationale: The interpolation of the latter of the latter depth. The soil or vegetation.	d sediments, no soil stratification ~5" es flow from San Simon River. uted on regular basis.	Near OHV	
Other hydric soil indicators: Saturated Is the hydric soil criterion met? No Very sandy. High chroma, no mottles. Is the ground surface inundated? Yes Is the soil saturated? Yes Depth to free-standing water in probe to Other field evidence of hydrology: Is the wetland hydrology criterion met. Is the wetland criteria met? No Rationale for wetland decision: No particular with the wetland of the wetland decision: No particular with the wetland of the wetland decision: No particular with the wetland decision: No particular with the wetland decision:	Shole: Flowing channel Yes WETLAN Positive indicator Ain OHWM of G	HYD Surface Ra ND D	ROLOGY The water depth: The la River, also carriationale: The interpolation of the latter of the latter depth. The soil or vegetation.	d sediments, no soil stratification ~5" Tes flow from San Simon River. Ited on regular basis. ON However site is jurisdictional s	Near OHV	
Other hydric soil indicators: Saturated Is the hydric soil criterion met? No Very sandy. High chroma, no mottles. Is the ground surface inundated? Yes Is the soil saturated? Yes Depth to free-standing water in probe hydrology: Hon south side of river. Is the wetland hydrology criterion met. Are wetland criteria met? No Rationale for wetland decision: No public with Mithematical March 1988.	Sole: Flowing channel WETLAN Positive indicator Sin OHWM of Green	HYD Surface Ra ND D	ROLOGY The water depth: The la River, also carriationale: The interpolation of the latter of the latter depth. The soil or vegetation.	d sediments, no soil stratification ~5" Tes flow from San Simon River. The dead on regular basis. ON However site is jurisdictional was a server of the second of the	Near OHV water of U	
Other hydric soil indicators: Saturated Is the hydric soil criterion met? No Very sandy. High chroma, no mottles. Is the ground surface inundated? Yes Is the soil saturated? Yes Depth to free-standing water in probe to Other field evidence of hydrology: Hon south side of river. Is the wetland hydrology criterion met. Are wetland criteria met? No Rationale for wetland decision: No public with Project Name: AZER Railroad Alignma Field Investigator(s): T. Strong, D. Gir.	Sole: Flowing channel WETLAN Positive indicator Sin OHWM of Green	HYD Surface Of Gi Ra ND D rs for Gila Ri	ROLOGY e water depth: la River, also carri ationale: Inunda DETERMINATIO soil or vegetation. iver.	d sediments, no soil stratification ~5" Tes flow from San Simon River. Ited on regular basis. ON However site is jurisdictional s	Near OHV water of U Inc. uite 202	

<u>1987 C</u>	UKPS (OF E	NGINEERS MAN	IUAL		
Describe General Site Floodplain of Gila River, near south bank. Data Point No.: DP-2 Conditions:						
Do Normal Circumstances Exist on Site? Ye	ial Problem Area? No					
Site Disturbance? No recent disturbances. Location: ~50' south of DP-1						
	v	EGI	ETATION			
Dominant Plant Species	Indicator Status	Stratum	Domin	ant Plant Species	Indicator	Stratum
1 Salix exigua	OBL	S	8			
2 Trianthema portulacastrum	NI	Н	9			
3 Salsola tragus	FACU	\overline{H}	10			
4 Amaranthus palmeri	FACU	Н	11		1	
5 Muhly sp.		Н	12		1	
6	_		13		1	
7			14			
Percent of dominant species that are OBL, FA	CW. an	d/or		nined		
Is the hydrophytic vegetation criterion met?			Rationale:	Determination dependent on	identificat	tion
of grass.		_		I		
9,8,000						
Soil Type: Maricopa loam Horizon - Matrix Color: Mottles? None Mottle Colors: Other hydric soil indicators: None. No soil st. Is the hydric soil criterion met? No Very sandy. High chroma, no mottles.	10 Y - ratificati	on	Histic		No No	
	I	HYD	ROLOGY			
Is the ground surface inundated? No Is the soil saturated? No Depth to free-standing water in probe hole:	Is the ground surface inundated? No Surface water depth: - Is the soil saturated? No					
Other field evidence of hydrology: Above O	HWM on	sout.	h side of river.			
Is the wetland hydrology criterion met? No		Ra	tionale: No evide	ence of regular inundation or s	aturation.	
	(10) (D) F	m r	EEDD MAN . ET C			_
Are wetland criteria met? No			ETERMINATIO soil or hydrology. V	N Vihtin floodplain but above OF	IWM.	
		<i>y</i>				
Project Name: AZER Railroad Alignment Field Investigator(s): T. Strong, D. Ginter Project No.: 1378.01 Date:	Aug. 29,	, 2006		WestLand Resources, In 2323 E. Broadway Blvd., Su Tucson, Arizona 8571	ite 202	

	<u>1987</u>	CORPS	OF E	<u>NGII</u>	<u>NEERS MAN</u>	<u>UAL</u>		
Describe General S Conditions:	ite Low overflow north bank.	channel	of (Gila	River, near	Data Point No.: DP-3	3	
Do Normal Circum	stances Exist on Site?	Yes		Is	Site a Potent	ial Problem Area? No		
Site Disturbance?	No recent disturbances.					Location: ~20' SE of	B-6	
		V	ÆGI	ETAT	ΓΙΟΝ			
Domina	nt Plant Species	Indicator	Stratum		Domin	ant Plant Species	Indicator	Stratum
1 Salix exigua		OBL	S	8				
2 Prosopis velutin	a	UPL	T	9				
3 Baccharis salici		FACW	S	10				
4 Baccharis sarot		FAC-	S	11				
5 Trianthema port	tulacastrum	NI	Н	12			-	
6				13				
7				14				
	nt species that are OBL, F. vegetation criterion met?		d/or 		50 % Rationale:	≥50 % FAC, FACW, or OB	L. NI spec	ies
				SOIL				
Soil Type: Arizo Horizon Mottles? Other hydric soil ir Is the hydric soil co High chroma, no mo	- Matrix Color: None Mottle Colors: dicators: None All sand	10 Y - ! and cobb	les, n	o soil	Histic stratification	List: No 10" Gleyed? Epipedon? No sediments, no soil stratification	No on.	
			HYD	ROL	OGY			
Is the soil saturated					er depth:			
Other field evidence Visibly damp on surf	ting water in probe hole: te of hydrology: Commodace, but not saturated. rology criterion met? ?	only used o		ow ch		River. Near OHWM on north	side of rive	er
		VETLAN	ND D	ЕТЕ	RMINATIO	N		
Are wetland criteri Rationale for wetla	a met? No no positive	e indicator	rs for	soil, v		hydrologoy are marginal. He	owever site	e is
Project Name: A	ZER Railroad Alignment					WestLand Resources,	Inc.	
Field Investigator(s					_	2323 E. Broadway Blvd., S		
Project No.: 1378.01 Date: Aug. 29, 2006 Tucson, Arizona 85719								

	1987				INEERS MAN			
Describe General S Conditions:	Site On slope above	OHWM	on no	orth .	side of river.	Data Point No.: DP-4		
Do Normal Circum	stances Exist on Site?	es es			Is Site a Potent	tial Problem Area? No		
Site Disturbance?	No recent disturbances.		_			Location: ~15' north o	of B-6	
			VEGI	ETA	ATION			
Dominar	nt Plant Species	Indicator	Stratum		Domin	ant Plant Species	Indicator	Stratum
1 Prosopis velutin	a	UPL	T	8			1 10017	
2 Atriplex canesce		UPL	S	9				
3 Tranthema porta		NI	H	10				
4 Solanum eleagn	ifolium	UPL	H	11				
5				12				
6				13				
7	nt species that are OBL, FA			14				
Soil Type: Arizo Horizon Mottles?	gravelly sandy loam - Matrix Color: None Mottle Colors: ndicators: None Mostly s	10 Y	/R 3/.	l, sor	Hydric Soils Depth: Histic	List: No 10" Gleyed? Epipedon? No oma, no mottles. No soil stratif	No	vies
Is the ground surfa	ce inundated? No				LOGY ater depth:			
Is the soil saturated								
	ling water in probe hole:	-						
		ve OHWI	M. So	те е	evidence of erosi	ion and/or sediment deposition	during	
extreme flood events.								
Is the wetland hydr	rology criterion met? No	<u>o</u>	Ra	atior	nale: <u>No evide</u>	ence of regular inundation or s	aturation	
Are wetland criteri Rationale for wetla	a met? No				ERMINATIO parameter.	N		
Field Investigator(s	ZER Railroad Alignment s): T. Strong, D. Ginter 8.01 Date:	Aug. 29), <u>200</u> 6	6		WestLand Resources, In 2323 E. Broadway Blvd., Su Tucson, Arizona 8571	ite 202	

	1987 CORPS OF E	<u>NGINEERS MAN</u>	<u>IUAL</u>		
	h edge of flowing t edge of corridor.	channel of Gila	Data Point No.: DP-5	•	
Do Normal Circumstances Exist on Site		Is Site a Potent	tial Problem Area? No		
Site Disturbance? No recent disturba	nces.		Location: ~15 ft. nort	h of water	r.
	VEG	ETATION			
Dominant Plant Species	Indicator Status Stratum	Domin	ant Plant Species	Indicator	Stratum
1 Salix exigua	OBL S	8	11 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
2 Tamarix sp.	NI S	9			
3 Baccharis salicifolia	FACW S	10			
4 Sorghum halapense	FACU H	11			
5		12			
6		13			
7		14			
Percent of dominant species that are O	BL, FACW, and/or	FAC: 67 %			
Is the hydrophytic vegetation criterion not included in evaluation.		Rationale:	≥ 50 % FAC, FACW, or OB.	L. NI spec	ies
		SOIL			
Soil Type: Riverwash Horizon - Matrix Co Mottles? None Mottle Co Other hydric soil indicators: None. N Is the hydric soil criterion met? No Very sandy. High chroma, no mottles.	lors: - o soil development, a	Histic Il sand.	List: No 10" Gleyed? Epipedon? No sediments, no soil stratification	No n.	
	HYD	ROLOGY			
Is the ground surface inundated? No		e water depth:			
Is the soil saturated? No	.1				
Depth to free-standing water in probe h				1 1	,
Other field evidence of hydrology:	4 above flowing cha	nnei. Some eviaence	e of recent flooding – vegetatio	on knocked	!
down, debris in brush, mud cracks.) <i>M</i> - D	A No and d			
Is the wetland hydrology criterion met	No R	ationale: No evide	ence of long-term inundation of	or saturatio	o n .
	WETLAND D	ETERMINATIO	N		
	WEILAND	EIEMMATIO			
Are wetland criteria met? No					
			lowever, site is jurisdictional v	vater of U.	S.
WIR	in OHWM of Gila R	ver.			
Project Name: 47ED Bailward Alianon	ant		Wastandbara		
Project Name: AZER Railroad Alignm			WestLand Resources, I		
Field Investigator(s): T. Strong, K. Ote Project No.: 1378.01			2323 E. Broadway Blvd., S		
FIGIECTING., 13/0.01	Oate: Sept. 8, 2006		Tucson, Arizona 8571	19	

<u>1</u>	987 CORPS	OF E	NGI	NEERS MAN	UAL		
Describe General Site Clump of w	illows north	of fl	owin	g channel of	Data Point No.:	DP-6	
Conditions: Gila River, v	west edge of	corri	dor.				
Do Normal Circumstances Exist on Site? Yes Is Site a Potential Problem Area? No							
Site Disturbance? No recent disturbances. Location: ~50 ft. from west edge of corridor.						zе	
	•	VEGI	ETA	TION			
Dominant Plant Species	Indicator Status	Stratum		Domin	ant Plant Species	Indicator Status	Stratum
1 Salix gooddingii	OBL	T	8				
2 Salix exigua	OBL	S	9				$\vdash \vdash$
3 Tamarix sp.	NI	S	10				\vdash
4 Hymenoclea salsola	UPL	S	11				╁┈┤
5 Datura wrightii	UPL	H	12				╂╼┥
	UFL	11	-				╀
6		-	13				+
7		1,	14	50.07			
Percent of dominant species that are OBI Is the hydrophytic vegetation criterion m not included in evaluation.		1d/or		: 50 % Rationale:	≥ 50 % FAC, FACW, or	r OBL. NI spec	ries
Soil Type: Riverwash Horizon - Matrix Colo Mottles? None Mottle Colo Other hydric soil indicators: None. No s Is the hydric soil criterion met? No High chroma, no mottles.	rs: -	/R 3/: ent, al	ll san	Hydric Soils Depth: Histic d and cobbles.	List: No 10" Gleyed? Epipedon? No rediments, no soil stratifi	No cation.	
Is the ground surface inundated? No Surface water depth: - Is the soil saturated? No Depth to free-standing water in probe hole: - Other field evidence of hydrology: ~75' north of flowing channel. Some evidence of recent flooding—flood debris piled against trees. Is the wetland hydrology criterion met? No Rationale: No evidence of long-term inundation or saturation.							
		rs for	soil (ERMINATION	N owever, site is jurisdictio	onal water of U	s.
Project Name: AZER Railroad Alignmen Field Investigator(s): T. Strong, K. Otero Project No.: 1378.01 Da)	2006			WestLand Resource 2323 E. Broadway Blve Tucson, Arizona	d., Suite 202	

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Describe General Site Near north edge of flowing channel of Gila Data Point No.: DP-7									
Conditions: River, center of corridor.									
Do Normal Circumstances Exist on Site? Yes Is Site a Pot					s Site a Potenti	tential Problem Area? No			
Site Disturbance? No recent disturbances.				Location: ~12 ft. north	of water	*.			
VEGETATION									
Dominant Plant Species Status Status Status Opinional Plant Species Status Status Opinional Plant Species					Indicator Status	Stratum			
1 Salix exigua		OBL	S	8					
2 Tamarix sp.		VI	S	9					
3 Bouteloua barbata	L	UPL	Н	10					
4				11					
5			\dashv	12					
6			\dashv	13				\vdash	
Percent of dominant species the	at are ORI EAC	'W/ and	1/or I	14 FAC:	: 50%				
Is the hydrophytic vegetation continctuded in evaluation.			- -		Rationale:	≥ 50 % FAC, FACW, or OBL.	NI spec	ies	
				ate c	Hydric Soils I Depth: Histic	- Gleyed? Epipedon? No	No		
Is the ground surface inundated? No Surface water depth: - Is the soil saturated? No Depth to free-standing water in probe hole: - Other field evidence of hydrology: Dry. ~4' above flowing channel. Some evidence of recent flooding – some flood debris in brush, mud cracks. Is the wetland hydrology criterion met? No Rationale: No evidence of long-term inundation or saturation.									
WETLAND DETERMINATION Are wetland criteria met? No Rationale for wetland decision: No positive indicators for soil or hydrology. However, site is jurisdictional water of U.S. Within OHWM of Gila River.									
Project Name: AZER Railroad Field Investigator(s): T. Strong Project No.: 1378.01	g, K. Otero	Sept. 8, 2	2006			WestLand Resources, In 2323 E. Broadway Blvd., Su Tucson, Arizona 85719	ite 202		

1987 CORPS OF ENGINEERS MANUAL

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Describe General Site Near north edge of flowing channel of Gila Data Point No.: DP-8 Piver east edge of corridor									
Conditions: River, east edge of corridor.									
Do Normal Circumstances Exist on Site? Yes Is Site a Poter					Site a Potenti	ntial Problem Area? No			
Site Disturbance? No recent disturbances.				Location: ~6 ft. north	of water.				
VEGETATION									
Dominant Plant Species Statum Status Opinioant Plant Species Dominant Plant Species					Stratum				
1 Salix exigua		OBL	S	8					
2				9					
3				10					
4			\Box	11					
5				12					
6		1		13					
7		1	11	14 EAC	100.07				
	nt species that are OBL, FA		id/or l			≥ 50 % FAC, FACW, or OB	I		
is the hydrophytic	vegetation criterion met?	1 es	_	1	Rationale:	= 30 70 FAC, FACW, OF OB	<i>L</i> .		
-				SOIL	,				
Soil Type:River			_	_	Hydric Soils				
Horizon	- Matrix Color:	10 Y	_	_	Hydric Soils I Depth:	10" Gleyed?	No		
Horizon Mottles?	- Matrix Color: None Mottle Colors:	-	/R 3/3	<u>3</u> I	Hydric Soils I Depth: Histic		No	<u></u>	
Horizon Mottles? Other hydric soil in	- Matrix Color: None Mottle Colors: None. No soil a	-	R 3/3	3 I	Hydric Soils I Depth: Histic	10" Gleyed? Epipedon? No		<u> </u>	
Horizon Mottles? Other hydric soil in Is the hydric soil co	- Matrix Color: None Mottle Colors: ndicators: None. No soil a riterion met? No	-	R 3/3	<u>3</u> I	Hydric Soils I Depth: Histic	10" Gleyed?			
Horizon Mottles? Other hydric soil in	- Matrix Color: None Mottle Colors: ndicators: None. No soil a riterion met? No	-	R 3/3	3 I	Hydric Soils I Depth: Histic	10" Gleyed? Epipedon? No			
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Table B-1. Plant species observed on the AZER Corridor adjacent to the Gila River near Safford, Arizona.

Arizona.					Wetland
Scientific Name	Common Name	Within OHWM	Riparian Floodplain	Upland	Indicator Status
Abronia villosa	Sand Verbena	✓	✓		UPL
Acacia constricta	White-thorn acacia			/	UPL
Allionia sp.	Four-o'clock			V	UPL
Amaranthus palmeri	Palmer's Amaranth	√	✓		FACU
Ambrosia psilostachya	Ragweed		✓		FAC
Atriplex canescens	Four-wing Saltbush	√	_	/	UPL
Baccharis salicifolia	Seepwillow	√	✓		FACW
Baccharis sarothroides	Desert Broom	✓	✓		FAC-
Boerhaavia sp.	Spiderling		✓	V	UPL
Bouteloua aristidoides	Needle Grama		✓	✓	UPL
Bouteloua barbata	Six-weeks Grama	✓	✓		UPL
Chamaesyce albomarginata	Rattlesnakeweed			✓	UPL
Cynodon dactylon	Bermuda Grass	√	√		FACU
Cyperus rotundus	Nutgrass		√		FAC
Datura wrightii	Datura	✓	✓		UPL
Echinochloa sp.	Jungle grass		✓		
Eleocharis sp.	Spike Rush		✓		
Ephedra sp.	Ephedra			V	UPL
Eragrostis cilianensis	Stink Grass		✓	/	FACU+
Ferocactus wislizenii	Barrel Cactus			V	UPL
Fouquieria splendens	Ocotillo			✓	UPL
Gutierrezia	Threadleaf		1	1	
microcephala	Snakeweed			•	UPL
Helianthus annuus	Sunflower		✓		FAC-
Heterotheca subaxillaris	Camphorweed		~		UPL
Hymenoclea salsola	Burrobrush	√			UPL
Isocoma tenuisecta	Burroweed			✓	UPL
Lactuca serriola	Prickly lettuce		✓		FAC
Larrea tridentata	Creosote Bush			V	UPL
Leptochloa fusca ssp. uninervia	Mexican sprangletop		✓		FACW
Lycium sp.	Wolfberry			✓	UPL
Melilotus alba	White Sweet Clover		✓		FACU+
Mentzelia multiflora	Blazing Star		✓		UPL
Muhlenbergia sp.	Muhly	√	✓		
Nicotiana glauca	Tree tobacco	√	✓		FAC
Opuntia engelmannii	Engelmann Pricklypear			✓	UPL
Opuntia fulgida	Chain-fruit Cholla			1	UPL
Opuntia kunzei	Club Cholla			✓	UPL
Opuntia spinosior	Cane Cholla			✓	UPL
Parkinsonia florida	Blue Palo Verde			✓	UPL
Paspalum dilatatum	Dallisgrass		✓		FAC
Pectis papposa	Chinchweed		✓	✓	UPL
Pluchea sericea	Arrow weed		✓		FACW-

Scientific Name	Common Name	Within OHWM	Riparian Floodplain	Upland	Wetland Indicator Status
Polypogon monspeliensis	Rabbitfoot grass		✓		FACW+
Populus fremontii	Fremont cottonwood	✓	✓		FACW
Porophyllum gracile	Odora			✓	UPL
Proboscidea althaeifolia	Unicorn Plant		✓		UPL
Prosopis velutina	Velvet Mesquite	✓		✓	UPL
Salix exigua	Coyote Willow	✓	→		OBL
Salix gooddingii	Goodding's Willow	✓	✓		OBL
Salsola tragus	Russian thistle	✓	~		FACU
Schoenoplectus americanus	Bulrush		✓		OBL
Senna covesii	Desert Senna			√	UPL
Setaria macrostachya	Plains Bristle Grass			✓	UPL
Sisymbrium irio	London Rocket		✓		UPL
Solanum oleagnifolium	Silver-leaf Nightshade		✓	✓	UPL
Solanum rostratum	Buffalo bur		✓		UPL
Sorghum halepense	Johnson Grass	✓	✓	_	FACU+
Sporobolus sp.	Sporobolus sp.		✓		
Tamarix sp.	Tamarisk	✓	✓		NI
Tidestromia lanuginosa	Honeysweet		✓	✓	UPL
Trianthema portulacastrum	Horse Purslane	✓	✓		NI
Typha sp.	Cattail		✓		
Wislizenia refracta	Jackass Clover		✓		FACW
Xanthium strumarium	Cocklebur	✓	✓		NI
Ziziphus obtusifolia	Graythorn			√	UPL

^{*} Wetland Indicator Status Definitions:

OBL - Obligate wetland plants. Almost always (>99%) found in wetlands.

FACW - Facultative wetland plants. Usually occur in wetlands (67% to 99%) but may also occur in non-wetlands.

FAC - Facultative plants. Have similar likelihood of occurring in wetland or non-wetland conditions.

FACU - Facultative upland plants. May occur in wetlands (estimated 1% to 33%), but usually in non-wetlands

UPL - Upland plants. Rarely occur in wetlands (estimated <1%), almost always in non-wetland conditions.

No indicator status. Growth conditions are so varied that these species are not useful in defining wetland conditions.

Plus (+) or minus (-) signs indicate a greater or lesser probability of occurring in wetland conditions.



ARIZONA 118 S. CLINTON ST.,

EASTERN RAILWAY SUITE 300, CHICAGO, IL 60661

Oct. 3, 2006

Ms. Cindy Lester Army Corps of Engineers Regulatory Branch, Arizona Section 3636 N. Central Ave., Suite 760 Phoenix, AZ. 85012-1936

RE: Arizona Eastern Railway (AZER) New Railroad Alignment Construction Project, Safford, Graham County, Arizona – Agent Designation and Right-of-Way Authorization

Dear Ms. Lester:

Following up on our conference call last month with the Surface Transportation Board, I am writing to officially inform the Army Corps of Engineers that the AZER has designated WestLand Resources, Inc., to be our agent to perform all activities necessary to comply with the permitting requirements of the Clean Water Act Section 404 for the above project.

The Westland Resources agent contact is:

Ms. Kimberly Otero WestLand Resources, Inc. 2343 E. Broadway Boulevard, Suite 202 Tucson, AZ 85719 (520) 206-9585

The AZER is the project owner and has applied to the Surface Transportation Board for an Exemption Permit to build the new 10-mile (approx.) rail branch line. The line will extend north from the existing AZER mainline in Safford, bridge the Gila River, continue to the Safford Municipal Airport to provide rail access to that facility, and then extend to the new Phelps Dodge Safford Mine property.

Seven property owners other than the AZER have been identified as having property that may be affected by this project. All of these owners have been contacted and we have briefed them on the project goals and the most likely portions of their properties that could be affected by the rail line. The list of these property owners with their contact information is attached.

If you have any questions or require further information at this time, please do not hesitate to call me at (904) 241-6520.

Seff Worker

Sincore

Vice President, Special Projects

Arizona Eastern Railway

Attachment



ARIZONA 118 S. CLINTON ST.,

EASTERN RAILWAY CHICAGO, IL 60661 SUITE 300,

Attachment - Army Corps of Engineers Agent Designation Letter, Oct. 3, 2006

Mr. Christopher Claridge Claridge Farms P.O. Box 234 Ft. Thomas, AZ. 85536 Phone: (928) 485-2085

(For US 70 Highway Crossing) Arizona Department of Transportation Mr. Bill Harmon, District Engineer, Safford 2082 E. Hwy 70 Safford, AZ. 85546 Phone: (928) 428-5470

Mr. George Anderson Anderson Farms 1705 Judith Resnick El Paso, TX 79936

Phone: (915) 256-0250

(Safford Municipal Airport Property) Mr. Huey Long City Manager, City of Safford P.O. Box 272 717 Main St. Safford, AZ. 85548-0272

Phone: (928) 348-3211

(Airport Road Crossing, Graham County, also County Flood Plain Manager) Mr. Michael R. Bryce, P.E. **Graham County Engineer** General Services Building, Second Floor 921 Thatcher Blvd. Safford, AZ. 85548 Phone: (928) 428-0410

(Corner of State Land Sections) Mr. James Rees Arizona State Land Department 1600 West Adams St. Phoenix, AZ.

Phone: (602) 542-3115

Mr. John Korolsky Sr. Environmental Engineer Phelps Dodge Mining Company Safford District P.O. Box 151 Safford, AZ 85548

Phone: (928) 792-5825